High-Performance 2.2 kW transceiver in a 15" radome

6-INCH LCD RADAR
MODEL1623

- High Contrast 6" Silver Bright LCD
- 13 range scales from 0.125 to 16 nm
- Optional GPS/DGPS/WAAS navigator shows waypoint position with "lollipop mark"
- Low power consumption 8 Watts in Watchman mode
- Reverse video feature for effective use at night
- Improved short range target detection by using narrower pulselengths and dual IF bandwidths
- Zoom window for close observation of a specific area
- Guard Zone Alarm (US Patent No.5032842)
The MODEL 1623 is a high contrast LCD radar designed for pleasure craft and small fishing boats. Radar echoes are presented in four shades of gray on the 6" Silver Bright LCD. The Radar offers detailed pictures of coastline and targets at short ranges thanks to narrower pulsewidths and dual IF bandwidths. The waterproof display makes it ideal for flybridge installation.

Standard features include EBLs (Electronic Bearing Line), EVRMIs (Electronic Variable Range Marker), TTL output (Target Latitude and Longitude), Cursor L/L, Echo Trail, Guard Zone Alarm, Anti Clutter Automatic control of tuning and sensitivity. These features ensure optimum performance in detecting and ranging targets of interest.

**SPECIFICATIONS OF MODEL 1623**

### ANTENNA

**Type**  
Mirostrip radiator  
enclosed in ø380 mm radome

**Beamwidth**  
Hor. 6.2°, Vert. 25°

**Rotation Speed**  
41 rpm (0.125 to 0.75 nm)  
31 rpm (1 to 2 nm)  
24 rpm (3 to 16 nm)

### RF TRANSCEIVER

**Frequency**  
9410±30 MHz (X-band)

**Pulsed & PRR**  
0.08 µs/3000 Hz (0.125 to 0.75 nm)  
0.8 µs/1200 Hz (1 to 2 nm)  
0.8 µs/600 Hz (3 to 16 nm)

**Peak Output Power**  
2.2 kW nominal

**IF Amplifier**  
IF: 60 MHz  
BW: 15 MHz (0.125 to 0.75 nm)  
5 MHz (1 to 16 nm)

### DISPLAY

**Display Unit**  
6" monochrome LCD, 4 gray tones,  
240 x 320 pixels,  
90 mm (W) x 120 mm (H)

**Accuracy**  
1.0 % of range in use or 8 m,  
whichever is greater

**Bearing**  
EBL accuracy ±1°

**Range and Range Ring Interval**  
Range: 0.125, 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6, 8, 12, 16 nm  
Ring: .0625 .125 .25 .5 .1 1 2 2.5 3 4 nm

**Echo Trail**  
Interval: 30 s, 1, 2, 6 min, or continuous

**Interface** (NMEA 0183 format)  
BVC, BWR, DBK, DBS, DBT, DPT, GGA, GLC, GLL, GTO, HGD, HDM, HDT, MTW, MWV, RMA, RMB, RMC, VIB, VHW, VTE, XTE, ZDA

### ENVIRONMENT

**Temperature** (IEC 60945 Test method)  
Antenna Unit: -25°C to +70°C  
Display Unit: -15°C to +55°C  
Water resistance (IEC 60529 Test method)  
Antenna Unit: IEC IPX6, CFR46 (USCG)  
Display Unit: IEC IPX5, CFR46 (USCG)

### POWER SUPPLY

12 to 24 VDC, 42 W (max), 8 W (in Watchman mode)  
115/230 VAC with optional rectifier PR-62

### EQUIPMENT LIST

**Standard**  
1. Display Unit  
2. Antenna Unit  
3. Antenna Cable 10/15/20 m (Specify when ordering)  
4. Power Cable 3.5 m  
5. Spare Parts & Installation Materials  

**Option**  
1. Rectifier PR-62 for 115/230 VAC mains  
2. NMEA Cable, 5 m (MJ-A15A7F0005-020)  
3. NMEA Cable, 0.5 m branched (MJ-A15A7F0004-005)  
4. NMEA Cable, 2 m 7P to 7P (MJ-A15A7F0005-020)  
5. Antenna Bracket OP03-93  
6. External Buzzer XH3-BZ-L970  
7. Antenna Cable, 30 m (for 24 VDC Mains)

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You can see a Waypoint on the high contrast LCD screen when the radar is connected with an optional GPS Navigator. The Waypoint is indicated by a lollipop mark for easy identification and location.

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